



RICHARD SVINDLAND President

A Message from California American Water President RICHARD SVINDI AND

Dear California American Water Customer.

Having easy access to safe, clean water is something that can be easily taken for granted. At California American Water, our top priority is providing safe, reliable drinking water to our more than 690,000 customers.

I am pleased to share with you our 2017 Consumer Confidence Report, which is a testament to the hard work and dedication of our employees who ensure high-quality drinking water.

QUALITY: We have rigorous safeguards in place to ensure the water we provide to you meets or surpasses increasingly stringent water quality standards. Across California, we conducted approximately 652 different tests on 25,239 water samples for 2,994 constituents last year. We are proud and pleased to confirm that we met every primary and secondary state and federal water quality standard.

SERVICE: Last year, we invested more than \$92 million in water infrastructure in the California communities we serve. This investment ensures and maintains the safety and reliability of the facilities and technology needed to draw, treat, and distribute water.

VALUE: While costs to provide water service continue to increase across the country, our investments help us provide high-quality water service that remains an exceptional value, costing customers about a penny per gallon.

2017 brought fires and news stories concerning lead testing in schools across California. These events solidify the notion that water is essential for public health, fire protection, economic development and overall quality of life. That is why we are proud to continue to supply water that meets or surpasses all state and federal water quality standards.

If you have any questions or concerns, you can contact us by phone, email, online at www.californiaamwater.com, or in person at our local Customer Center. Please take the time to review this report. It provides details about the source and quality of your drinking water, using data from water-quality testing conducted for your local system between January and December 2017.

Sincerely.

RICHARD SVINDLAND

June Church

President



Once again, we proudly present our Annual Water Quality Report, also referred to as a Consumer Confidence Report (CCR). This CCR covers compliance testing completed through December 2017. We are pleased to tell you that our compliance with state and federal drinking water regulations remains exemplary. As in the past, we are committed to delivering the best quality drinking water. To that end, we remain vigilant in meeting the challenges of source water protection, water conservation, environmental compliance, sustainability and community education while continuing to serve the needs of all our water users.

ABOUT CALIFORNIA AMERICAN WATER (CAW) AND AMERICAN WATER (AW)

California American Water, a subsidiary of American Water (NYSE: AWK), provides high-quality and reliable water and/or wastewater services. American Water is the largest and most geographically diverse publicly traded U.S. water and wastewater utility company. The company employs 6,700 dedicated professionals who provide regulated and market-based drinking water, wastewater and other related services to an estimated 15 million people in 47 states and Ontario, Canada. More information can be found by visiting www.amwater.com.





The Consumer Confidence Report (CCR) is an annual water quality report containing data that California American Water and all associated water purveyors collected during the past year. CCRs let consumers know what contaminants, if any, are in their drinking water as well as any related health effects. CCRs also include details about where your water comes from and how it is treated. Additionally, they educate customers on what it takes to deliver safe drinking water and highlight the need to protect drinking water sources.

In 2017, we collected numerous samples at various sampling points in your water system. The water quality data presented is a combination of data compiled from our nationally recognized water quality laboratory and local commercial laboratories; all certified in drinking water testing by the State Board's Division of Drinking Water. If you have any questions about this report or your drinking water, please contact our Customer Service Center at (888) 237-1333.



The Dunnigan system is served by wells that pump groundwater from aquifers in the area. These wells are located within the geographic region of our Dunnigan service area. The water supplied is chlorinated to ensure that it meets bacteriological quality standards. The water supply is distributed for residential and commercial use.

WATER QUALITY STATEMENT

Last year the Dunnigan system did not violate any federal water quality standards. There is currently no MCL for hexavalent chromium. The previous MCL of 0.010 mg/L was withdrawn on September 11, 2017. California American Water vigilantly safeguards its water supplies and continues to work on treatment for the Dunnigan system.



The sources of drinking water include rivers, lakes, streams, ponds, reservoirs, springs and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and can pick up substances resulting from animal or human activity and even radioactive material. In order to ensure that tap water is safe to drink, USEPA and the State Water Resources Control Board set regulations limiting the amount of certain contaminants in water provided by public water systems. Contaminants that may be present in source water include:

ORGANIC CHEMICAL CONTAMINANTS

including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and may also come from gas stations, urban stormwater runoff, agricultural application, and septic systems.

INORGANIC CONTAMINANTS.

such as salts and metals, which can be naturally occurring or may result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.

PESTICIDES AND HERBICIDES,

which may come from a variety of sources, such as agriculture, urban stormwater runoff, and residential uses.

MICROBIAL CONTAMINANTS.

such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

RADIOACTIVE CONTAMINANTS,

which can be naturally occurring or may be the result of oil and gas production and mining activities.



FLUORIDE

Fluoride is a naturally occurring substance. It can be present in drinking water from two sources:

- **1. By nature** when groundwater comes into contact with fluoride-containing minerals naturally present in the earth; or
- 2. By a water purveyor through addition of fluoride to the water they are providing in the distribution system.

In the Dunnigan system, all fluoride in the water is from naturally occurring minerals and the concentrations are well below the limits for contaminants in drinking water set by the USEPA and State Water Resources Control Board, Division of Drinking Water.

LEAD

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. California American Water is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to two minutes before using water for drinking or cooking.

If you do so, you may wish to collect the flushed water and reuse it for another beneficial purpose, such as watering plants. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at www.epa.gov/lead.



Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the USEPA's Safe Drinking Water Hotline at (800) 426-4791.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants may be particularly at risk for infections. These people should seek advice about drinking water from their health care providers. USEPA/CDC guidelines on appropriate means to lessen the risk of infection by microbial contaminants are available through the USEPA's Safe Drinking Water Hotline at (800) 426-4791.



Water is sampled and tested consistently throughout the year to ensure the best possible quality. Contaminants are measured in:

- Parts per million (ppm) or milligrams per liter (mg/L)
- Parts per billion (ppb) or micrograms per liter (µg/L)
- Parts per trillion (ppt) or nanograms per liter (ng/L)
- Grains per gallon (grains/gal) A measurement of water hardness often used for sizing household water softeners. One grain per gallon is equal to 17.1 mg/L of hardness.
- MicroSiemens per centimeter (μS/cm) A measurement of a solution's ability to conduct electricity.
- Nephelometric Turbidity Units (NTU) A measurement of the clarity of water. Turbidity in excess of 5 NTU is noticeable to the average person.
- PicoCuries per liter (pCi/L) A measurement of radioactivity in water.

PARTS PER MILLION: PARTS PER BILLION: PARTS PER TRILLION:

1 second 1 second 1 second in 32 years in 32,000 years

1 second 1 second 32,000 days years years



California American Water conducts extensive monitoring to ensure that your water meets all water quality standards. The results of our monitoring are reported in the following tables. While most monitoring was conducted in 2017, certain substances are monitored less than once per year because the levels do not change frequently. For help with interpreting this table, see the "Definition of Terms" section.

- 1 Starting with a **Substance**, read across.
- **2** Year Sampled is usually in 2017 or year prior.
- **3** MCL shows the highest level of substance (contaminant) allowed.
- 4 MCLG is the goal level for that substance (this may be lower than what is allowed).
- **5** Average Amount Detected represents the measured amount (less is better).
- **6** Range tells the highest and lowest amounts measured.
- **7** A **No** under **Violation** indicates government requirements were met.
- 8 Major Sources in Drinking Water tells where the substance usually originates.

Unregulated substances are measured, but maximum allowed contaminant levels have not been established by the government.

Water Quality Results

Regulated Substances

	Year Sampled	MCL	PHG (MCLG)	Average Amount Detected	Range				
Substance (Units)					Low	High	Violation	Major Sources in Drinking Water	
Arsenic (ppb)	2016	10	0.004	2.0	NA		No	Erosion of natural deposits; runoff from orchards; Glass, and electronics production wastes	
Barium (ppm)	2016	1	2	0.2	NA		No	Discharges of oil drilling wastes and from metal refineries; Erosion of natural deposits	
Chromium (ppb)	2017	50	(100)	42	41 43		No	Discharge from steel and pulp mills; Erosion of natural deposits	
Fluoride (ppm) (naturally occurring)	2017	2	1	0.38	NA		No	Erosion of natural deposits; discharge from fertilizer and aluminum factories	
Hexavalent Chromium (ppb)	2017	N/A	0.02	45	38 57		No ¹	Discharge from electroplating factories, leather tanneries, wood preservation, chemical synthesis, refractory production, and textile manufacturing facilities; erosion of natural deposits	
Nitrate as Nitrogen (ppm)	2017	10	10	2.9	NA NA		No	Runoff and leaching from fertilizer use; Leaching from septic tanks and sewage; Erosion of natural deposits	

¹There is currently no MCL for hexavalent chromium. The previous MCL of 0.010 mg/L was withdrawn on September 11, 2017.

Distribution System Monitoring

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	Year Sampled	MCL	PHG (MCLG)	Average Amount Detected	Range				
Substance (Units)					Low	High	Violation	Major Sources in Drinking Water	
Chlorine (ppm)	2017	MRDL=4.0	MRDLG=4.0	0.90	0.70	1.10	No	reatment chemical used to disinfect drinking water	
Haloacetic Acids (ppb) ²	2017	60	N/A	ND	ND		No	By-product of drinking water disinfection	
Total Trihalomethanes (TTHM) (ppb) ²	2017	80	N/A	ND	ND		No	By-product of drinking water disinfection	

²The "Average Amount Detected" is the Highest Running Annual Average

Secondary Substances

Secondary Substances									
Substance (Units)	Year Sampled	SMCL	Average Amount Detected		nge	Violation	Major Sources In Drinking Water		
	Tour Guillpiou			Low	High	V.O.Z.			
Chloride (ppm)	2016	500	50	NA		No	Runoff/leaching from natural deposits		
Specific Conductance (mmhos/cm)	2016-2017	1600	678	660 690		No	Substances that form ions when in water; Seawater influence		
Sulfate (ppm)	2016	500	2.5	NA		No	Runoff/leaching from natural deposits; industrial wastes		
Total Dissolved Solids (ppm)	2016-2017	1000	360	350 370		No	Runoff/leaching from natural deposits; Industrial wastes		
Turbidity (NTU)	2016-2017	5	0.12	ND	0.20	No	Soil runoff		

Lead and Copper (tap water samples)

Substance (Units)	stance (Units) Year Sampled Action Level PHG (MCLG) Number of Samples Amount Detected (90th Percentile)		Homes Above Action Level	Violation	Major Sources in Drinking Water			
Copper (ppm)	2017 1.3 0.3 8 0.03		0.03	0		Internal corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives		
Lead (ppb)	2017	15	0.2	8	1	0		Internal corrosion of household plumbing systems; Erosion of natural deposits; Discharges from industrial manufacturers

California American Water has not received requests to test drinking water for lead from school districts, since there are no schools in Dunnigan service area.

Additional Water Quality Parameters of Interest

This table shows average levels of additional water quality parameters that are often of interest to consumers. The averages shown are calculated from the levels detected at each source used to supply water is 2017. Values may vary from day-to-day. There are no health-based limits for these substances in drinking water.

Substance (Units)	Year Sampled	Average Amount Detected	Range		
Substance (Units)	rear Sampleu	Average Amount Detected	Low	High	
Alkalinity as CaCO3 (ppm)	2016-2017	266	260	270	
Calcium (ppm)	2016-2017	31	30	33	
Magnesium (ppm)	2016-2017	46	43	51	
рН	2016-2017	8.2	N	IA .	
Silica (ppm)	2016	31	NA		
Sodium (ppm)	2016	35	N	IA	
Total Hardness as CaCO3 (ppm)	2016-2017	260	250	280	
Total Hardness as CaCO3 (grains/gallon)	2016-2017	15.2	14.6	16.4	

Hardness is the sum of polyvalent cations present in the water, generally magnesium and calcium. The cations are usually naturally occurring.



Action Level (AL): The concentration of a contaminant, which, if exceeded, triggers treatment or other requirements, that a water system must follow.

DDW: Division of Drinking Water

LRAA: Locational Running Annual Average

Maximum Contaminant Level (MCL): The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology. Secondary MCLs (SMCL) are set to protect the odor, taste, and appearance of drinking water.

Maximum Contaminant Level Goal (MCLG): The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

Maximum Residual Disinfectant Level (MRDL): The highest level of disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Maximum Residual Disinfectant Level Goal (MRDLG): The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

MFL: Million fibers per liter.

micromhos per centimeter (µmhos/cm): A measure of electrical conductance.

NA: Not applicable N/A: No data available

ND: Not detected

Nephelometric Turbidity Units (NTU): Measurement of the clarity, or turbidity, of the water.

Notification Level (NL): The concentration of a contaminant, which, if exceeded, requires notification to DDW and the consumer. Not an enforceable standard.

pH: A measurement of acidity, 7.0 being neutral.

picocuries per liter (pCi/L): Measurement of the natural rate of disintegration of radioactive contaminants in water (also beta particles).

parts per billion (ppb): One part substance per billion parts water, or micrograms per liter.

parts per million (ppm): One part substance per million parts water, or milligrams per liter.

parts per trillion (ppt): One part substance per trillion parts water, or nanograms per liter.

Primary Drinking Water Standard (PDWS): MCLs for contaminants that affect health along with their monitoring and reporting requirements and water treatment requirements.

Public Health Goal (PHG): The level of a contaminant in drinking water below which there is no known or expected risk to health. PHGs are set by the California EPA.

RAA: Running Annual Average

Secondary Maximum Contaminant Level (SMCL): Secondary MCLs are set to protect the odor, taste, and appearance of drinking water.

SWRCB: State Water Resources Control Board

TON: Threshold Odor Number

Total Dissolved Solids (TDS): An overall indicator of the amount of minerals in water.

Treatment Technique (TT): A required process intended to reduce the level of a contaminant in drinking water.

Variances and Exemptions: State or USEPA permission not to meet an MCL or utilize a treatment technique under certain conditions.

%: Percent



If you have any questions about this report, your drinking water, or service, please call California American Water's Customer Service toll free at (888) 237-1333.

WATER INFORMATION SOURCES

California American Water

www.californiaamwater.com

State Water Resources Control Board

www.swrcb.ca.gov

United States Environmental Protection Agency (USEPA)

www.epa.gov/safewater

Safe Drinking Water Hotline

(800) 426-4791

Centers for Disease Control and Prevention

www.cdc.gov

American Water Works Association

www.awwa.org

Water Quality Association

www.wqa.org

National Library of Medicine/National Institute of

www.nlm.nih.gov/medlineplus/drinkingwater.html

This report contains important information about your drinking water. Translate it, or speak with someone who understands it at (888) 237-1333.

Este informe contiene información muy importante sobre su agua potable. Tradúzcalo o hable con alguien que lo entienda bien al (888) 237-1333.

Ntawm no yog ib co lus qhia tseem ceeb heev txog koj cov dej seb huv npaum li cas. Yog tias koj xav tau kev pab txhais cov lus qhia no, thov hu rau peb ntawm (888) 237-1333.

這是關於您的水質的十分重要的資訊。如果您需要幫助翻譯此資訊 請致電(888) 237-1333 與我們聯繫。

आपके पानी की गुणवत्ता के बारे में यह बहुत महत्वपूर्ण सूचना है। यदि इस सूचना के अनुवाद के लिए आपको सहायता की जरूरत हो, तो कृपया (888) 237-1333 पर हमें काल करें।

Это очень важная информация о качестве Вашей воды. Если Вам требуется перевод этой информации, позвоните нам по телефону (888) 237-1333.

Ito ay isang napakahalagang impormasyon tungkol sa kalidad ng iyong tubig. Kung iyong kailangan ng tulong sa pagsalin ng impormasyon na ito, mangyaring tumawag sa amin sa (888) 237-1333.

Đây là thông tin rất quan trọng về chất lượng nước của quý vị. Nếu quý vị cần thông dịch thông tin này, xin gọi chúng tôi theo số (888) 237-1333.